

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/040088

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C10G17/06 C10G67/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C10G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, API Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 984 617 A (CHELLIS ITALO V. DE ET AL) 16 May 1961 (1961-05-16) column 2, lines 42-48 column 3, lines 46-61 ----- US 3 123 550 A (SKOMOROSKI ROBERT M ET AL) 3 March 1964 (1964-03-03) claims 1,3; example 1 column 2, lines 52-63 ----- US 3 749 666 A (LOCKWOOD W,US ET AL) 31 July 1973 (1973-07-31) column 1, line 71 - column 2, line 17 column 2, lines 40-45 column 3, lines 20-27 ----- -/-	1-31
X		1-31
A		1-31

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the International search  15 March 2005	Date of mailing of the International search report  24/03/2005
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Harf, J

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**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 305 480 A (MILLS IVOR W ET AL) 21 February 1967 (1967-02-21) column 1, lines 37-41 column 1, line 72 - column 2, line 4 column 2, lines 12-28 -----	1-31

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Information on patent family members

International Application No

PCT/US2004/040088

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 2984617	A 16-05-1961	NONE		
US 3123550	A 03-03-1964	NONE		
US 3749666	A 31-07-1973	NONE		
US 3305480	A 21-02-1967	BE 672470 A AT 284316 B CH 481206 A DE 1545367 A1 FR 1454738 A LU 49873 A1 NL 6515034 A		17-05-1966 10-09-1970 15-11-1969 22-01-1970 11-02-1966 18-05-1967 23-05-1966